UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,191	01/04/2005	Yelena Shulepova	NL 020613	7687
24737 7590 09/04/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 PRIADCLETE MANOR NY 10510			EXAMINER	
			PRITCHETT, JOSHUA L	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2872	
			MAIL DATE	DELIVERY MODE
			09/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/520,191	SHULEPOVA ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOSHUA L. PRITCHETT	2872				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>07 Ju</u>	ilv 2008					
·= · · · · · · · · · · · · · · · · · ·	action is non-final.					
<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) 11-22 is/are withdraw	4a) Of the above claim(s) <u>11-22</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9 and 11-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>04 January 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

This action is in response to Amendment filed July 7, 2008. Claims 1-4 and 11-16 have been amended as requested by the applicant.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 11 and 17-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Doi (US 2003/0099045).

Regarding claims 1 and 11, Doi discloses a central lens element (20) having an optical axis (parallel to 28) and located centrally of a circumjacent mounting portion having spaced parallel surfaces that extend perpendicularly to the optical axis a non-random light scattering structure (32) comprising indentations (Fig. 4) for coupling out light entering the mounting portion, the non-random light scattering structure being located on at least one of the spaced parallel surfaces (para. 0033, 0038; Fig. 4; the Doi states non-reflective structures both scatter

Application/Control Number: 10/520,191 Page 3

Art Unit: 2872

and absorb and 32 is a non-reflective structure) and light absorbing means adjacent the non-random light scattering structure and configured to absorb light scattered from the non-random light scattering structure (para. 0033) and reduce ghosting of images displayed on a screen (para. 0037).

Regarding claims 17-22, Doi discloses the light scattering structure is located on both of the parallel surfaces (Fig. 4) and includes a first structure and a second structure the first structure (right side 32) of the light scattering structure being located on a first surface of the parallel surfaces, the first surface being near an image plane (light coming in at Lo) that is configured to receive the light coupled out of the light scattering structure and the second structure (left side 32) of the light scattering structure being located on a second surface of the parallel surfaces further from the image plane (Fig. 4). Doi further discloses the light absorbing means are located on the first surface (para. 0033; light absorbing means are located on both surfaces).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/520,191

Art Unit: 2872

Page 4

Claims 2-7 and 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doi (US 2003/0099045) in view of Tanaka (US 5,550,657).

Doi teaches the invention as claimed but lacks reference to the specifics of the indentations. Tanaka teaches the non-random light-scattering structure comprises indentations having parallel light-scattering surfaces with predetermined inclinations relative to the spaced parallel surfaces (Fig. 3). Tanaka teaches the indentations comprise at least one array of concentric circular indentations centered on the optical axis of the lens element (Fig. 25). Examiner interprets "concentric circular indentations" to be similar to those shown in Figs. 3-4 of the current application, since these are the only drawings that show views of the indentations. The indentations of Fig. 25 in Tanaka resemble the indentations shown in Figs. 3-4 of current application. Tanaka teaches the indentations in at lest one array have triangularly shaped cross sections in a plane in which the optical axis of the lens is located (Fig. 3). Tanaka teaches all indentations have identically shaped cross sections in at least one array (Fig. 3). Tanaka teaches the triangular shape is asymmetrical relative to a local perpendicular (Fig. 25). Tanaka teaches the triangular shape comprises a right angled triangle having one leg lying in the plane of the respective spaces parallel surface of the mounting portion, the second leg being disposed on the side of the triangle facing the central axis (Fig. 25). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the Doi invention include the indentations of Tanaka for the purpose of achieving an even distribution of light from the exit surface.

Application/Control Number: 10/520,191 Page 5

Art Unit: 2872

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doi (US 2003/0099045) in view of Ohkawa (US 6,568,820).

Doi teaches the invention as claimed but lacks reference to molding. Ohkawa teaches the use of molding to create the optical lens element (col. 6 lines 11-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the Doi invention created by molding as taught by Ohkawa for the purpose of precise and efficient reproduction of the light-scattering structure.

Response to Arguments

Applicant's arguments filed July 7, 2008 have been fully considered but they are not persuasive.

Applicant argues the Doi reference teaches only a single plane which is perpendicular to the optical axis. Doi clearly shows two distinct surfaces (32) in Fig. 4 on both sides of opening (34) having the claimed light scattering structure. The claim language requires only that the surfaces are spaced from one another, not that the surfaces are on incident and exit sides of the optical element. The surfaces (32) of Doi are spaced from each other by the opening (34) and the surfaces are parallel, thus all the claimed limitations are satisfied and the rejection is maintained.

Conclusion

Application/Control Number: 10/520,191

Art Unit: 2872

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Page 6

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSHUA L. PRITCHETT whose telephone number is (571)272-2318. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone B. Allen can be reached on 571-272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/520,191

Art Unit: 2872

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joshua L Pritchett/ Primary Examiner Art Unit 2872 Page 7